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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	NEW
Filing Date	NEW
First Named Inventor	Cannon, Bret D.
Group Art Unit	
Examiner Name	
Attorney Docket Number	50005-147

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		4,034,285	07/05/1977	Ashley et al.	
		4,305,666	12/15/1981	Becherer et al.	
		4,398,293	08/09/1983	Hall et al.	
		4,523,847	06/18/1985	Bjorklund et al.	
		4,590,597	05/20/86	Long-sheng et al.	
		4,594,511	06/10/1986	Cooper et al.	
		4,856,009	08/08/1989	Hall et al.	
		4,856,899	08/15/1989	Iwaoka et al.	
		4,905,244	02/27/1990	Wyeth et al.	
		5,070,260	12/03/1991	Wong	
		5,267,019	11/30/1993	Whittaker et al.	
		5,285,308	02/08/1994	Jenkins et al.	
		5,293,213	03/08/1994	Klein et al.	
		5,317,156	05/31/1994	Cooper et al.	
		5,339,177	08/16/1994	Jenkins et al.	
		5,347,392	09/13/1994	Chen et al.	
		5,441,054	08/15/1995	Tsuchiya	
		5,477,368	12/19/1995	Eskildsen et al.	

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Application of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		EP 0 720 313 B1	06/23/1999	Tyco Submarine Systems Ltd.		
		EP 0 373 945 B1	02/02/1994	British Telecommunications		

Examiner  
SignatureDate  
Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Sheet	2	of	3
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**Complete if Known**

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Filing Date	NEW
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First Named Inventor	Cannon, Bret D.
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**Group Art Unit**

**Examiner Name**

Attorney Docket Number	50005-147
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Examiner Signature		Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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*Complete if Known*

Sheet 3 of 3 Attorney Docket Number 50005-147

Application Number NEW  
 Filing Date NEW  
 First Named Inventor Cannon, Bret D.  
 Group Art Unit  
 Examiner Name  
 Attorney Docket Number 50005-147

## **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T <sup>2</sup>
		<u>Stabilization and Frequency Measurement of the I<sub>2</sub>-Stabilized Nd: YAG Laser</u> , Hall, Ma, Taubman, Tiemann, Hong, Pfister and Ye, IEEE Transactions on Instrumentation and Measurement, Vol. 48, pp. 583-586 (April 1999)	
		<u>Frequency locking to a high-finesse Fabry-Perot cavity of a frequency doubles Nd: YAG laser used as the optical phase modulator</u> , Bregant, Cantatore, Valle, Ruoso, Zavattini (February 28, 2002)	
		<u>Analysis of Cleaved Coupled-Cavity (C<sup>3</sup>) Diode Lasers-Part II: Frequency Modulation, Above Threshold Operation, and Residual Amplitude Modulation*</u> , Streifer, Yevick, Paoli and Burnham, IEEE Journal of Quantum Electronics Vol. QE-21, pp. 539-550 (June 1985)	
		<u>Low-amplitude-noise laser for AURIGA detector optical readout</u> , Conti, DeRose, Marin, Applied Optics, Vol. 39, pp. 5732-5738 (November 2000)	
		<u>Progress Report on the Laser Absorption Spectrometer Development</u> , Spiers, Menzies, Philips, Ransom (No date)	
		<u>Optical interference fringe reduction in frequency-modulation spectroscopy experiments</u> , Hjelme, Neegard, Vartdal, Optical Society of America, pp. 1731-1733 (March 17, 1995)	
		<u>Modulation transfer processes in optical heterodyne saturation spectroscopy</u> , Shirley, Optical Society of America, pp. 537-539 (July 9, 1982)	
		<u>Optical Heterodyne Spectroscopy Enhanced by an External Optical Cavity: Toward Improved Working Standards</u> , IEEE Journal of Quantum Electronics, Vol. 26, pp. 2006-2012 (November 1990)	
		<u>Residual amplitude modulation in laser electro-optical phase modulation</u> , Whittaker, Gehrtz, Bjorklund, J. Opt. Soc. Am. B, Vol. 2, pp. 1320-1326 (August 1985)	

Examiner Signature

Date Considered

3/30/94